

Tours of Vol US Mail

July 20, 2016

Mr. Jeffrey Thein
New Jersey Department of Environmental Protection
Division of Water Quality Bureau of Point Source Permitting – Region One
P.O. Box 029
Trenton, New Jersey 08625-0029

Re: Discharge Monitoring Report for June 2016
Diamond Alkali Superfund Site
Newark, New Jersey

Dear Mr. Thein:

In accordance with the New Jersey Pollutant Dischar ge Elimination System (NJPDES) Discharge to Surface Water (DSW) Permit Equivalent, dated May 2, 2000, f or the Diamond Alkali Superfund Site (the site) in Newark, New Jersey, Tierra Solutions, Inc. (Tierra, formerly Chemical Land Holdings, Inc.) has prepare d the Discharge Monitoring Report (DMR) for the month of June 2016 (Attachment 1). Tierra is currently treating groundwater and directly discharging treated effluent water to the Passaic River. The effluent water is sampled and analyzed once per month in accordance with the NJPDES DSW Permit Equivalent.

Beginning April 1, 2014, Tierra began directly disc harging the treated groundwater to the Passaic Rive r, moving away from the previous model of batch storage and testing prior to discharge. At the beginning of the month, the effluent is sampled and analyzed for the chemical constituents listed in the NJPDES DSW Per mit Equivalent. The analytical results for each sample are validated to confirm that the constituent concentrations are within the limitations established in the NJPDE S DSW Permit Equivalent. The analytical results are representative of the effluent treated and discharged throughout the month.

Fourteen direct discharge events resulted in the di Passaic River during the month of June 2016. The direct discharge of treated effluent water is limite discharged to the river. the scharge of 67,211 gallons of treated groundwater to the irect discharge of treated effluent water is limite discharged to the river.

A summary of the analytical results for the June 20 16 treated effluent discharged, as well as the mont hly average and daily maximum concentration for each ch emical constituent (please note that the recorded information for pH does not include a monthly avera ge; however, the daily maximum and minimum pH value s were recorded) is included in Attachment 2.

If you should have any questions related to the DMR, please call me at (732) 579-7586.

Sincerely,

Brian Mikucki

Bi thinks.

On behalf of Occidental Chemical Corporation (as successor to Diamond Shamrock Chemicals Company)

Enclosures

Cc: Ms. Elizabeth Butler

New Jersey Superfund Branch – 2 Emergency and Remedial Response Division U.S. Environmental Protection Agency, Region II 290 Broadway, 20th Floor New York, New York 10007-1866

Mr. Jay Nickerson Bureau of Case Management, Site Remediation Program Mail Code 401-05F P.O. Box 420 Trenton, New Jersey 08625-0420

ATTACHMENt 1

FROM

NAME Tierra Solutions, Inc. (formerly Chemical Land Holdings, Inc.)

ADDRESS Two Tower Center Boulevard

10th Floor

East Brunswick, NJ 08816

FACILITY Diamond Alkali Superfund Site LOCATION Newark, Essex County, NJ

DISCHARGE MONITORING REPORT (DMR)

NJPDES DSW Permit Equivalent – May 2000 PERMIT NUMBER

		•
ı	DISCHARGE NUMBER	

 MONITORING PERIOD

 YEAR MO
 DAY
 YEAR MO
 DAY

 2016 06
 01
 2016 06
 30

☐ Check here if no Discharge.

Note: Read Instructions before completing this form.

		QUAN'	TITY OR LOADING	3		UALITY OR CONC	ENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
Flow	SAMPLE	67,211	7,505	GPD					0	1/30	Flow Meter
Tiow	PERMIT REQUIREMENT	NL ¹	NL	GFD			-		0	1/30	Flow Meter
Total Suspended Solids	SAMPLE				N/A	10 U	10 U	mg/l	0	1/30	Grab
rotal ouspellada collas	PERMIT REQUIREMENT				N/A	30	50	1118/1	0	1/30	Grab
Total Organic Carbon	SAMPLE				N/A	1.0 U	1.0 U	mg/l	0	1/30	Grab
Total Organic Carbon	PERMIT REQUIREMENT				N/A	NL	40	111g/1	0	1/30	Grab
Petroleum Hydrocarbons	SAMPLE				N/A	5.0 UJL 5.0	UJL	mg/l	0	1/30	Grab
T ca olculii Tiyarooarbons	PERMIT REQUIREMENT				N/A	10	15	1118/1	0	1/30	Grab
рН	SAMPLE				6.63	NA	7.80	SU	0	1/30	Grab
PIII	PERMIT REQUIREMENT				6	NL	9	30	0	1/30	Grab
2,4,6-Trichlorophenol	SAMPLE				N/A	5.0 U	5.0 U	μg/l	0	1/30	Grab
2,4,0 11101110100011011	PERMIT REQUIREMENT	<u></u>			N/A	115	260	μ6/1	0	1/30	Grab
2-Chlorophenol	SAMPLE				N/A	5.0 U	5.0 U	μg/l	0	1/30	Grab
-	PERMIT REQUIREMENT				N/A	35	125	P6/1	0	1/30	Grab
			ent a nd all attachments were property and all attachments were property and an artistic and all attachments are all attachments and all attachments are all attachmen			9:1.		TELEPHON	E	DATE	<u> </u>
Brian Mikucki Project Coordinator	and evaluate the ir system, or those p	formation submitted. Based ersons directly responsible f	on my inquiry of the person or gathering the information,	or persons who m the information su	nanage the ubmitted is,			(732) 579-758		6 07 20	
Project Coordinator to the best of my knowledge and belief, true, accur ate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonm for knowing violations.					. 0,0,10,7	TURE OF PRINCIPAL EXE ICER OR AUTHORIZED AG		EA NUM	/BER	YEAR MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (*Reference all attachments here*) 1) The flow quantity is actually the total flow discharged for the entire month. 2) NL – Not Limited. 3) N/A – Not Applicable. 4) U – Constituent Analyzed, but Not Detected. 5) GPD – Gallons per Day. 6) Ibs/day – pounds/day. 7) R – the data are unusable (compound may or may not be present). 8) J – Detection limit is estimated.

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FACILITY Diamond Alkali Superfund Site LOCATION Newark, Essex County, NJ

NJPDES DSW Permit Equivalent – May 2000 PERMIT NUMBER

DISCHARGE NUMBER
DISCHARGE NUMBER

Form Approved OMB No. 2040-0004

	MONITORING PERIOD									
	YEAR MO	DAY		YEAR M	0	DAY				
FROM	2016 06	01	то	2016 0	ô	30				

☐ Check here if no Discharge.

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		QUAN [*]	TITY OR LOADING	;	C	UALITY OR CONC	ENTRATION	NO.		FREQUENC	YSAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TVDE
2,4-Dichlorophenol	SAMPLE				N/A	5.0 U	5.0 U	110/1	0	1/30	Grab
2,4-Dictilorophenoi	PERMIT REQUIREMENT				N/A	23	150	– μg/l	0	1/30	Grab
Phenol	SAMPLE				N/A	23 U	23 U	ua/l	0	1/30	Grab
Filefiol	PERMIT REQUIREMENT				N/A	23	40	µg/l	EX ANAL 0 1/3 0 1/3 0 1/3 0 1/3 0 1/3 0 1/3 0 1/3 0 1/3 0 1/3 0 1/3 0 1/3 0 1/3 0 1/3 1/3 0 1/3 0 1/3 0 1/3 0 1/3 0 1/3	1/30	Grab
1,2,4-Trichlorobenzene	SAMPLE				N/A	5.0 U	5.0 U	lug/l	0	1/30	Grab
	PERMIT REQUIREMENT		sand T		N/A	45	90	μg/l	0	1/30	Grab
Hexachlorobenzene	SAMPLE	4.8E-04 6	9E-04	lbs/d	N/A	22 U	22 U	ug/l	0	1/30	Grab
riexaciiioi obelizelle	PERMIT REQUIREMENT	NL	16.3	ay	N/A	22	40	μg/l	0	1/30	Grab
1,2-Dichlorobenzene	SAMPLE				N/A	5.0 U	5.0 U	ua/l	0	1/30	Grab
1,2-bichiorobenzene	PERMIT REQUIREMENT				N/A	40	110	– μg/l	0	1/30	Grab
1.3-Dichlorobenzene	SAMPLE				N/A	5.0 U	5.0 U	μg/l	0	1/30	Grab
1,3-Biemorobenzene	PERMIT REQUIREMENT				N/A	25	35	μg/i	0	1/30	Grab
1,4-Dichlorobenzene	SAMPLE				N/A	5.0 U	5.0 U	Jug/l	0	1/30	Grab
1,4-Dictiloropetizette	PERMIT REQUIREMENT				N/A	18,	45	– μg/l	0	1/30	Grab
NAME/TITLE PRINCIPAL EXECUTIVE OFFICE	I certify under per		nt a nd all attachments were paid			d · / /		TELEPHON	E	D.	ATE
Brian Mikucki Project Coordinator	and evaluate the ir system, or those p	formation submitted. Based ersons directly responsible f	on my inquiry of the person or gathering the information,	or persons who m the information su	nanage the abmitted is,			2) 579-75	86 201	6 07 20	
TYPED OR PRINTED		y knowledge and belief, true, accur ate, and complete. I am aware that there are this for submitting false information, including the possibility of fine and imprisonment lations. SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT AREA NUMBER YEAR							YEAR N	10 DAY	

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PAGE 2 OF 7

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,	110110	Octuation,		(

Chemical Land Holdings, Inc.)

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FACILITY

East Brunswick, NJ 08816 Diamond Alkali Superfund Site

LOCATION Newark, Essex County, NJ

NJPDES DSW Permit Equivalent –
May 2000
PERMIT NUMBER

FROM

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DISCH	ARGE NUMBER	

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		QUAN	TITY OR LOADING	1	c	UALITY OR CONC	ENTRATION	ON NO.		FREQUENCY	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
Fluoranthene	SAMPLE				N/A	10 U	10 U	//	0	1/30	Grab
Fluorantilene	PERMIT REQUIREMENT				N/A	NL	16	μg/l	0	1/30	Grab
Nonhthalana	SAMPLE				N/A	5.0 U	5.0 U	/1	0	1/30	Grab
Naphthalene Phenanthrene Benzene	PERMIT REQUIREMENT				N/A	35	105	μg/l	0	1/30	Grab
Phenanthrene	SAMPLE				N/A	5.0 U	5.0 U	110/1	0	1/30	Grab
	PERMIT REQUIREMENT				N/A	35	105	µg/l	0	1/30	Grab
Panzana	SAMPLE				N/A	5.0 U	5.0 U	lug/l	0	1/30	Grab
Delizerie	PERMIT REQUIREMENT				N/A	21	57	μg/l	0	1/30	Grab
Chlorobenzene	SAMPLE				N/A	5.0 U	5.0 U		0	1/30	Grab
Cilioropenzene	PERMIT REQUIREMENT	2777			N/A	23	45	µg/l	0	1/30	Grab
1,2-Dichloroethane	SAMPLE				N/A	5.0 U	5.0 U		0	1/30	Grab
1,2-Dichioloctilane	PERMIT REQUIREMENT				N/A	30	85	μg/l	0	1/30	Grab
1,1,1-Trichloroethane	SAMPLE				N/A	5.0 U	5.0 U		0	1/30	Grab
1, 1, 1-111CHIOTOEthane	PERMIT REQUIREMENT				N/A	25	65	μg/l	0	1/30	Grab
NAME/TITLE PRINCIPAL EXECUTIVE OFFICE	CER I certify under per		ent a nd all attachments were period to assure that qualifie			d · / /		TELEPHON	E	DAT	=
Brian Mikucki Project Coordinator	and evaluate the is system, or those p	nformation submitted. Based ersons directly responsible f	d on my inquiry of the person for gathering the information,	or persons who m the information su	anage the abmitted is,	TURE OF PRINCIPAL EXE		'32) 5 79-75	86 201	6 07 20	
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Diamond Alkali Superfund Site

LOCATION Newark, Essex County, NJ

NJPDES DSW Permit Equivalent -May 2000 **PERMIT NUMBER**

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PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
1,1-Dichloroethane	SAMPLE				N/A	5.0 U	5.0 U	/!	0	1/30	Grab
1,1-Dichloroediane	PERMIT REQUIREMENT				N/A	25	65	— μg/l	0	1/30	Grab
Chloroform	SAMPLE				N/A	5.0 U	5.0 U	//	0	1/30	Grab
Cilioroloffii	PERMIT REQUIREMENT				N/A	20	40	μg/l	0	1/30	Grab
Trans-1,2-Dichloroethene	SAMPLE				N/A	5.0 U	5.0 U	//	0	1/30	Grab
	PERMIT REQUIREMENT				N/A	25	65	μg/l	0	1/30	Grab
Ethyl Damana	SAMPLE				N/A	5.0 U	5.0 U	ua/l	0	1/30	Grab
Ethyl Benzene	PERMIT REQUIREMENT				N/A		430	μg/l	0	1/30	Grab
Toluene	SAMPLE				N/A	5.0 U	5.0 U	Jug/I	0	1/30	Grab
Toluette	PERMIT REQUIREMENT	and a			N/A	18	35	µg/l	0	1/30	Grab
Trichloroethene	SAMPLE				N/A	5.0 U	5.0 U		0	1/30	Grab
Monoroenene	PERMIT REQUIREMENT				N/A	25	65	— μg/l	0	1/30	Grab
Vinyl Chloride	SAMPLE				N/A	5.0 U	5.0 U		0	1/30	Grab
vinyi Chioride	PERMIT REQUIREMENT				N/A	25	65	— μg/l	0	1/30	Grab
NAME/TITLE PRINCIPAL EXECUTIVE OFFICE	ER I certify under per		ent a nd all attachments were signed to assure that qualifi			d · /		TELEPHON	E	DAT	E
Brian Mikucki Brian Mikucki Project Coordinator or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accur ate, and complete. I am aware that there are				THE OF PRINCIPAL EVE		32) 579-75	86 201	6 07 20			
significant nepalties for submitting false information, including the possibility of fine and imprisonment						CENT	EA NUM	/BER	YEAR MO	DAY	

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FROM

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		QUAN'	TITY OR LOADING	3	(QUALITY OR CONC	ENTRATIO	N		NO.	FREQUE	NCY	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXI	иим	UNI TS	EX	OF ANALY	1	TYPE
4,4-DDT	SAMPLE	7.5E-06 1	1E-05	lbs/d	N/A	0.34 UJL 0.	34 UJL		ua/I	0	1/30)	Grab
4,4-001	PERMIT REQUIREMENT	NL	0.25	ay	N/A	NL	0.3	4	μg/l	0	1/30)	Grab
4,4-DDE	SAMPLE				N/A	0.35 UJL 0.	35 UJL		ua/I	0	1/30)	Grab
4,4-000	PERMIT REQUIREMENT				N/A	NL	14	1	μg/l	0	1/30)	Grab
Alpha andosulfan	SAMPLE				N/A 0.050 UJL 0.050 UJL		μg/l	0	1/30)	Grab		
Alpha-endosulfan	PERMIT REQUIREMENT				N/A	32	90)	μул	0	1/30)	Grab
2,4-D	SAMPLE				N/A	11 UJL	11	U	μg/l	0	1/30)	Grab
	PERMIT REQUIREMENT				N/A	1,500	3,3	00	μул	0	1/30)	Grab
2,4-DB	SAMPLE				N/A	16 UJL	16	U	μg/l	0	1/30)	Grab
2,4-00	PERMIT REQUIREMENT				N/A	17	25	5	рул	0	1/30)	Grab
Dinoseb (DNBP)	SAMPLE				N/A	1.6 UJL	1.6	U	μg/l	0	1/30)	Grab
Billiodes (BNB)	PERMIT REQUIREMENT				N/A	420	79	0	рул	0	1/30)	Grab
Dioxin (2.3.7.8-TCDD)	SAMPLE	1.8E-09 2.	5E-09	lbs/d	N/A	0.34 UJL 0.	34 UJL		ua/I	0	1/30)	Grab
Dioxin (2,3,7,8-TCDD)	PERMIT REQUIREMENT	NL	0.00006	ay	N/A	NL	0.3	4	μg/l	0	1/30)	Grab
NAME/TITLE PRINCIPAL EXECUTIVE OFFIC	nt a nd all attachments were page			. 1.//		TE	LEPHONE	Ξ		DATE			
					(732) 5	79-758	36 201	6 07 20					
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PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
Total Recoverable Antimony	SAMPLE				N/A	60 U	60 U	/1	0	1/30	Grab
	PERMIT REQUIREMENT				N/A	200	305	μg/l	0	1/30	Grab
Total Recoverable Arsenic	SAMPLE				N/A	10 U	10 U	ua/l	0	1/30	Grab
	PERMIT REQUIREMENT				N/A	50	115	- μg/l	0	1/30	Grab
Total Recoverable Beryllium	SAMPLE				N/A	8.6 U	8.6 U	μg/l	0	1/30	Grab
rotal Recoverable Beryman	PERMIT REQUIREMENT				N/A	NL	8.6	рул	0	1/30	Grab
Total Recoverable Cadmium	SAMPLE				N/A	31 U	31 U	μg/l	0	1/30	Grab
	PERMIT REQUIREMENT				N/A	NL	31	рул	0	1/30	Grab
Hexavalent Chromium	SAMPLE				N/A	66 U	66 U	ua/l	0	1/30	Grab
Tickavaicht Onformain	PERMIT REQUIREMENT				N/A	NL	66	µg/l	0	1/30	Grab
Trivalent Chromium	SAMPLE				N/A	44 U	44 U		0	1/30	Grab
Trivalent Chromium	PERMIT REQUIREMENT	- 1975 - 1975			N/A	NL	44	µg/l	0	1/30	Grab
Total Pacayarable Conner	SAMPLE				N/A	62 U	62 U	ua/l	0	1/30	Grab
Total Recoverable Copper	PERMIT REQUIREMENT				N/A	NL,	62	μg/l	0	1/30	Grab
			ent a nd all attachments were signed to assure that qualifi			9:1/		TELEPHON	E	DATE	Ē
						2) 579-75	86 201	6 07 20			
TYPED OR PRINTED	to the best of my knowledge and behef, true, accur ate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT AREA						A NUM	/BER	YEAR MO	DAY	

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PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
Total Recoverable Lead	SAMPLE				N/A	18 U	18 U	//	0	1/30	Grab
Total Necoverable Lead	PERMIT REQUIREMENT				N/A	NL	18	- μg/l	0	1/30	Grab
Total Recoverable Mercury	SAMPLE				N/A	3.4 U	3.4 U	/1	0	1/30	Grab
	PERMIT REQUIREMENT				N/A	NL	3.4	µg/l	0	1/30	Grab
Total Recoverable Nickel	SAMPLE				N/A	73 U	73 U	/!	0	1/30	Grab
	PERMIT REQUIREMENT				N/A	NL	73	μg/l	0	1/30	Grab
Total Recoverable Silver	SAMPLE				N/A	69 U	69 U	/1	0	1/30	Grab
	PERMIT REQUIREMENT				N/A	NL	69	μg/l	0	1/30	Grab
Total Recoverable Zinc	SAMPLE				N/A	47 U	47 U		0	1/30	Grab
Total Recoverable Zilic	PERMIT REQUIREMENT				N/A	NL	47	μg/l	0	1/30	Grab
Total Cyanide	SAMPLE				N/A	78 U	78 U	lug/I	0	1/30	Grab
Total Cyanide	PERMIT REQUIREMENT				N/A	NL	78	µg/l	0	1/30	Grab
	SAMPLE				N/A						
	PERMIT REQUIREMENT				N/A	J-7 /					
NAME/TITLE PRINCIPAL EXECUTIVE OFFIC	ER I certify under per or supervision in a		ent a nd all attachments were signed to assure that qualif			- Think to		TELEPHON	E	DATE	
Brian Mikucki Project Coordinator	and evaluate the ir system, or those p	formation submitted. Based ersons directly responsible f	on my inquiry of the perso for gathering the information accur ate, and complete.	n or persons who m , the information su	anage the bmitted is,	TURE OF PRINCIPAL EXE	(73	2) 579-75	86 201	07 20	
TYPED OR PRINTED significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. OFFICER OR AUTHORIZED AGENT AREA NUMBER YEAR MO DAY									DAY		

COMMENT AND EXPLANATION OF ANY VIOLATIONS (*Reference all attachments here*) 1) The flow quantity is actually the total flow discharged for the entire month. 2) NL – Not Limited. 3) N/A – Not Applicable. 4) U – Constituent Analyzed, but Not Detected. 5) GPD – Gallons per Day. 6) lbs/day – pounds/day. 7) R – the data are unusable (compound may or may not be present). 8) J – Detection limit is estimated.

EPA Form 3220-1 (Rev. 03-99) Previous editions may be used.

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ATTACHMENT 2

JUNE 2016 SUPPLEMENTAL TABLE FOR MONTHLY DISCHARGE MONITORING REPORT DIAMOND ALKALI SUPERFUND SITE NEWARK, NEW JERSEY

	Parent	Limitation	Sample ID:	W-TSI- ⊞T -060116	W-TSI-EFF-DUP-060116	TB-060116-694R
Carrier and the same of the sa	renni		Sample Date:	6/1/2016	6/1/2016	6/10/2016
Constituent	Monthly	Daily	SDGNumber:	LISTER694R	LISTER694R	LISTER694R
	Avg.	Max	Units	2012 (0011)	ESIE OUTT	
Total Suspended Solids(TSS)	30	50	mg/I	10 U	10 U	_
Total Organic Carbon (TOC)	-	40	mg/I	1.0 U	1.0 U	_
Petroleum Hydrocarbons	10	15	mg/I	5.0 WL	5.0 WL	_
рН		6 - 9	SU.	8.30 R	8.30 R	_
2,4,6-Trichlorophenol	115	260	μg/I	5.0 U	5.0 U	_
2-Chlorophenol	35	125	µg/l	5.0 U	5.0 U	_
2,4-Dichlorophenol	23	150	µg/l	5.0 U	5.0 U	_
Phenol	23	40	µg/l	23 U	23 U	_
1,2,4-Trichlorobenzene	45	90	µg/l	5.0 U	5.0 U	5.0 U
Hexachlorobenzene	22	40	µg/l	22 U	22 U	_
1,2-Dichlorobenzene	40	110	µg/l	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	25	35	µg/l	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	18	45	μg/l	5.0 U	5.0 U	5.0 U
Fluoranthene	-	16	μg/I	10 U	10 U	_
Naphthalene	35	105	μg/l	5.0 U	5.0 U	_
Phenanthrene	35	105	μg/l	5.0 U	5.0 U	_
Benzene	21	57	µg/l	5.0 U	5.0 U	5.0 U
Chlorobenzene	23	45	µg/l	5.0 U	5.0 U	5.0 U
1.2-Dichloroethane	30	85	µg/l	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	25	65	μg/l	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	25	65	μg/l	5.0 U	5.0 U	5.0 U
Chloroform	20	40	µg/l	5.0 U	5.0 U	5.0 U
1,2-Dichloroethene (Total)	25	65	μg/l	5.0 U	5.0 U	-
trans-1,2-Dichloroethene	25	65	µg/l	5.0 U	5.0 U	5.0 U
Ethylbenzene	-	430	μg/l	5.0 U	5.0 U	5.0 U
Toluene	18	35	μg/l	5.0 U	5.0 U	5.0 U
Trichloroethene	25	65	μg/l	5.0 U	5.0 U	5.0 U
Vinyl Chloride	25	65	µg/l	5.0 U	5.0 U	5.0 U
4,4-DDT		0.34	µg/l	0.34 WL	0.34 WL	-
4,4-DDE	_	14	µg/l	0.35 WL	0.35 WL	_
Endosulfan I	32	90	μg/l	0.05 WL	0.05 WL	_
2,4-D	1,500	3,300	µg/l	11 U	11 WL	_
2,4-DB	17	25	µg/l	16 U	16 WL	_
Dinoseb (DNBP)	420	790	µg/l	1.6 U	1.6 WL	_
Dioxin (2,3,7,8-TCDD)	-	0.000081	µg/l	0.000081 U	0.000081 U	_
Total Recoverable Antimony	200	305	µg/l	60 U	60 U	_
Total Recoverable Arsenic	50	115	µg/l	10 U	10 U	_
Total Recoverable Beryllium	-	8.6	μg/l	8.6 U	8.6 U	_
Total Recoverable Cadmium		31	µg/l	31 U	31 U	_
Hexavalent Chromium		66	µg/l	66 U	66 U	_
Trivalent Chromium		44	µg/l	44 U	44 U	_
Total Recoverable Copper		62	µg/l	62 U	62 U	_
Total Recoverable Lead		18	µg/l	18 U	18 U	_
Total Recoverable Mercury		3.4	µg/l	3.4 U	3.4 U	_
Total Recoverable Nickel		73	µg/l	73 U	73 U	_
Total Recoverable Silver		69	µg/l	69 U	69 U	_
Total Recoverable Zinc	_	47	µg/l	47 U	47 U	_
Total Cyanide	-	78	µg/l	78 U	78 U	_
процестального поможення выполняться по этом по э	n karama karama karama karama karama karama karama kahama makarama karama kar	ntretrave tretrave tretrave tretrave tretrave tretrave orietes a lances a lances a lances a lances a lances a l				enerman Austreamen Autreamen Austreamen Autreamen Same en mis same en mis same en mis same en mis same en mis Sen same forste konst forste Same ander forste Same forste en andere en andere en andere en andere en andere e

mg/I-Milligrams/liter

µg/I - Micrograms/liter SU - Standard units

⁻⁻ Not analyzed or not applicable

U-Constituent was not detected above the associated detection limit

UL.-The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity. Low bias is indicated.

R-Result is rejected.

Trivalent Chromium Concentration is calculated based on the total and hexavalent chromium results.

JUNE 2016 MONTHLY DISCHARGE ANALYTICAL DATA SUMMARY DIAMOND ALKALI SUPERFUND SITE NEWARK, NEW JERSEY

Constitute				INTAMAN'	NEWJERGET		
Row	Constituent				W-TSI-ETF-060116	Monthly	Daily
Flow -		Monthly Avg.	Daily Max	Units	LISTER694R	Average ⁽¹⁾	Maximum
Total Oganic Cathon (TCC) − 40 mg/l 1.0 U 1.0 U 1.0 U Fletch PH Parage (Line, 2016) − 6 − 9 SU 6.83 − 7.80 NA 7.80 2.4.6 Finichlorophenol 115 260 µg/l 5.0 U 5.0 U 5.0 U 2.4.2-Chirophenol 25 125 µg/l 5.0 U 5.0 U 5.0 U 2.4.2-Chirophenol 23 150 µg/l 5.0 U 5.0 U 5.0 U 1.2.4-Trichloroberazene 45 90 µg/l 23 U 23 U 23 U 23 U 1.2.2-Trichloroberazene 22 40 µg/l 23 U 22 U </td <td>Flow</td> <td>_</td> <td></td> <td>GPD</td> <td></td> <td></td> <td>7,505</td>	Flow	_		GPD			7,505
Petrole am Hydrocarbons	Total Suspended Solids(TSS)	30	50	mg/l	10 U	10 U	10 U
Field prilange (June, 2016)	Total Organic Carbon (TOC)	_	40	mg/l	1.0 U	1.0 U	1.0 U
Field pH Range (June, 2016)	Petroleum Hydrocarbons	10	15		5.0 WL	5.0 WL	5.0 WL
2.4.β-Trichtophenol 115 260 μg/l 5.0 U	Field pHRange (June, 2016)	_	6 - 9		6.63 - 7.80	NA	7.80
2-Chlorophenol 35 125 μg/l 5.0 U PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	2,4,6-Trichlorophenol	115	260	μg/I	5.0 U	5.0 U	5 U
2.4-Dichlorophenol 23 150 µg/l 5.0 U 5.0 U 23 U 23 U 23 U 23 U 1.2 A Trichloroberacene 45 90 µg/l 5.0 U 2.2 U 1.2 Dichloroberacene 40 110 µg/l 5.0 U 5.0 U 5.0 U 5.0 U 5.0 U 1.5 U <td< td=""><td>2-Chlorophenol</td><td>35</td><td>125</td><td></td><td>5.0 U</td><td>5.0 U</td><td>5 U</td></td<>	2-Chlorophenol	35	125		5.0 U	5.0 U	5 U
Phenol		23	150		5.0 U	5.0 U	5 U
1.2.4-Trichloroberozene 45 90 µg/l 5.0 U 5.0 U 5.0 U Hexachloroberozene 22 40 µg/l 22 U 22 U 22 U 22 U 18-36 NA 4.8E-044 6.8E-044 1.2-Dichloroberozene 40 1110 µg/l 5.0 U 1.0 U		23	40		23 U	23 U	23 U
Hexachloroberaene	1,2,4-Trichlorobenzene	45	90		5.0 U	5.0 U	5.0 U
Hexachtoroberazene	Hexachlorobenzene		40				
1.2-Dichloroberazene 40 110 µg/I 5.0 U 5.0 U 5.0 U 1.3-Dichloroberazene 25 35 µg/I 5.0 U 5.0 U 5.0 U 1.4-Dichloroberazene 18 45 µg/I 5.0 U 5.0 U 5.0 U Pluoranthene - 16 µg/I 5.0 U 5.0 U 5.0 U Phenanthrene 35 105 µg/I 5.0 U 5.0 U 5.0 U Breane 21 57 µg/I 5.0 U 5.0 U 5.0 U Phenanthrene 30 45 µg/I 5.0 U 5.0 U 5.0 U Brazene 21 57 µg/I 5.0 U 5.0 U 5.0 U Chloroberazne 23 45 µg/I 5.0 U 5.0 U 5.0 U 1.1-Dichloroethane 25 65 µg/I 5.0 U 5.0 U 5.0 U 1.1-Dichloroethane 25 65 µg/I 5.0 U 5.0 U 5.0 U 1.2-Dichloroetha	Hexachlorobenzene	_				4.8E-04	6.9E-04
1,3-Dichloroberazene 25 35 µg/I 5.0 U 5.0 U 5.0 U 1,4-Dichloroberazene 18 45 µg/I 5.0 U 5.0 U 5.0 U Houranthene - 16 µg/I 10 U 10.0 U 5.0 U Naphthalene 35 105 µg/I 5.0 U 5.0 U 5.0 U Bername 21 57 µg/I 5.0 U 5.0 U 5.0 U Chloroberazene 23 45 µg/I 5.0 U 5.0 U 5.0 U 1,1-17ichloroethane 30 85 µg/I 5.0 U 5.0 U 5.0 U 1,1-17ichloroethane 25 65 µg/I 5.0 U 5.0 U 5.0 U 1,1-17ichloroethane 25 65 µg/I 5.0 U 5.0 U 5.0 U 1,1-17ichloroethane 25 65 µg/I 5.0 U 5.0 U 5.0 U 1,1-17ichloroethane 25 65 µg/I 5.0 U 5.0 U 5.0 U <	1,2-Dichlorobenzene	40	110	µg/I		5.0 U	5.0 U
1,4-Dichloroberæne 18 45 pg/l 5.0 U 5.0 U 5.0 U Fluoranthene - 16 pg/l 5.0 U 10.0 U 10.0 U 10.0 U Naphthalene 35 105 pg/l 5.0 U 5.0 U 5.0 U Phenanthrene 35 105 pg/l 5.0 U 5.0 U 5.0 U Benzane 21 57 pg/l 5.0 U 5.0 U 5.0 U 1,2-Dichloroethane 30 85 pg/l 5.0 U 5.0 U 5.0 U 1,2-Dichloroethane 25 65 pg/l 5.0 U 5.0 U 5.0 U 1,1-Dichloroethane 25 65 pg/l 5.0 U 5.0 U 5.0 U 1,2-Dichloroethane 25 65 pg/l 5.0 U 5.0 U 5.0 U 1,2-Dichloroethane 25 65 pg/l 5.0 U 5.0 U 5.0 U 1,2-Dichloroethane 25 65 pg/l 5.0 U 5.0 U 5.0 U	1,3-Dichlorobenzene						
Fluoranthene	,						
Naphthalene 35	*	_	16				
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Trichloroethene 25 65 µg/I 5.0 U 5.0 U 5.0 U Vinyl Chloride 25 65 µg/I 5.0 U 5.0 U 5.0 U 4,4-DDT - 0.34 µg/I 0.34 UL 0.34 UL 0.34 UL 4,4-DDT - 0.25 lbs/d NA 7.5E-06 1.1E-05 4,4-DDE - 14 µg/I 0.35 UL 0.35 UL 0.35 UL Endosulfan I 32 90 µg/I 0.05 UL 0.050 UL 0.05 UL 2,4-DB 15,500 3,300 µg/I 16 U 11 UL 11 U 2,4-DB 17 25 µg/I 16 U 16 UL 16 U 2,4-DB 17 25 µg/I 16 U 16 UL 16 U Dioxin (2,3,7,8-TCDD) - 0.000081 µg/I 0.000081 U 0.000081 U 0.000081 U Dioxin (2,3,7,8-TCDD) - 0.000081 µg/I 60 U 60 U 60 U 60 U <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>							
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4,4-DDT - 0.34 µg/I 0.34 ULL 0.44-DDE - 0.25 lbs/d NA 7.5E-06 1.1E-05 0.35 ULL 0.35 ULL 0.35 ULL 0.35 ULL 0.05 ULL 11 UUL							
4,4-DDT - 0.25 lbs/d NA 7.5E-06 1.1E-05 4,4-DDE - 14 µg/l 0.35 UL 0.35 UL 0.35 UL Endosulfan I 32 90 µg/l 0.05 UL 0.050 UL 0.05 UL 2,4-D 1,500 3,300 µg/l 11 U 11 UL 11 U 2,4-DB 17 25 µg/l 16 U 16 UL 16 U Dinoseb (DNBP) 420 790 µg/l 1.6 U 1.6 UL 1.6 U Dioxin (2,3,7,8-TCDD) - 0.000081 µg/l 0.000081 U 0.000081 U 0.000081 U Dioxin (2,3,7,8-TCDD) - 0.000081 µg/l 0.000081 U 0.0000081 U 0.0000081 U Dioxin (2,3,7,8-TCDD) - 0.0000081 µg/l 0.0000081 U 0.0000081 U 0.000000018 0.0000000025 Total Recoverable Arsenic 50 115 µg/l 60 U 8.6 U	•						
4,4-DDE - 14 μg/I 0.35 WL 0.35 WL 0.35 WL Endosulfan I 32 90 μg/I 0.05 WL 0.050 WL 0.05 WL 2,4-D 1,500 3,300 μg/I 11 U 11 WL 11 U 2,4-DB 17 25 μg/I 16 U 16 WL 16 U Dinoseb (DNBP) 420 790 μg/I 1.6 U 1.6 WL 1.6 U Dioxin (2,3,7,8-TCDD) - 0.000081 μg/I 0.000081 U 0.000081 U 0.000081 U 0.000081 U 0.000081 U 0.0000081 U 0.0000081 U 0.00000018 0.0000000025 0.00000000000000000000000000000000000	, , , , , , , , , , , , , , , , , , ,						
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2,4-D 1,500 3,300 μg/l 11 U 11 UL 11 U 11 U 11 U 11 U 11 U 11 U 2,4-DB 17 25 μg/l 16 U 16 UL 16 UL 16 U 16 U 16 UL 1.6 U 1.6 U 1.6 U 1.6 U 1.6 UL 1.6 UL 1.6 U 1.6 UL 1.	,						
2,4-DB 17 25 μg/I 16 U 16 UL 16 U Dinoseb (DNBP) 420 790 μg/I 1.6 U 1.6 UL 1.6 UL Dioxin (2,3,7,8-TCDD) - 0.000081 μg/I 0.000081 U 0.000081 U 0.00000018 Dioxin - 0.00006 lbs/d NA 0.000000018 0.000000025 Total Recoverable Antimony 200 305 μg/I 60 U 60 U 60 U 60 U Total Recoverable Arsenic 50 115 μg/I 10 U 10 U 10 U 10 U Total Recoverable Beryllium - 8.6 μg/I 8.6 U 8.6 U 8.6 U 8.6 U Total Recoverable Cadmium - 31 μg/I 31 U 31 U 31 U 31 U 31 U Hexavalent Chromium - 66 μg/I 66 U 66 U 66 U 44 U 44 U 44 U 44 U 44 U 62 U							
Dinoseb (DNBP) 420 790 μg/I 1.6 U 1.6 UL 1.6 UL 1.6 U Dioxin (2,3,7,8-TCDD) – 0.000081 μg/I 0.000081 U 0.000081 U 0.000081 U 0.0000000025 Total Recoverable Antimony 200 305 μg/I 60 U 60 U 60 U 60 U Total Recoverable Arsenic 50 115 μg/I 10 U 10 U 10 U 10 U Total Recoverable Beryllium – 8.6 μg/I 8.6 U 8.6 U 8.6 U 8.6 U 31 U 31 U 31 U 31 U 31 U 31 U 44 U 62 U 6				µg/I			
Dioxin (2,3,7,8-TCDD) - 0.000081 μg/I 0.000081 U 0.000081 U 0.000081 U 0.0000000025 Total Recoverable Antimony 200 305 μg/I 60 U 60 U 60 U 60 U 60 U 10							
Dioxin - 0.00006 lbs/d NA 0.0000000018 0.0000000025 Total Recoverable Antimony 200 305 μg/l 60 U 60 U 60 U 60 U 60 U 10 U <td>, ,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	, ,						
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Total Recoverable Arsenic 50 115 μg/l 10 U 8.6 U 31 U 66 U 44 U 62 U 62 U 62 U		200					
Total Recoverable Beryllium - 8.6 μg/l 8.6 U 8.6 U 8.6 U Total Recoverable Cadmium - 31 μg/l 31 U 31 U 31 U 31 U 31 U 66 U 44 U 44 U 44 U 44 U 44 U 44 U 62 U <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	•						
Total Recoverable Cadmium - 31 μg/I 31 U 66 U 44 U 62 U <t< td=""><td></td><td>50</td><td></td><td></td><td></td><td></td><td></td></t<>		50					
Hexavalent Chromium - 66 μg/I 66 U 66 U 66 U 66 U Trivalent Chromium - 44 μg/I 44 U 44 U 44 U 44 U Total Recoverable Copper - 62 μg/I 62 U 62 U 62 U 62 U	•	_					
Trivalent Chromium – 44 $\mu g/I$ 44 U 44 U 44 U Total Recoverable Copper – 62 $\mu g/I$ 62 U 62 U		_					
Total Recoverable Copper – 62 µg/I 62 U 62 U		_					
		_					
	• • • • • • • • • • • • • • • • • • • •	_					
, ,	Total Recoverable Lead	_	18	μg/l	18 U	18 U	18 U
Total Recoverable Mercury – 3.4 µg/l 3.4 U 3.4 U 3.4 U	•	_					
Total Recoverable Nickel – 73 µg/l 73 U 73 U 73 U		_					
Total Recoverable Silver – 69 µg/I 69 U 69 U		_					
Total Recoverable Zinc – 47 µg/l 47 U 47 U 47 U		_					
Total Cyanide – 78 μg/l 78 U 78 U 78 U 78 U Notes:			/8	μg/I	/8 U	/8 U	/8 U

GPD-Gallons per day

mg/I-Milligrams/liter

µg/I-Micrograms/liter SU-Standard units

⁻⁻ Not analyzed or not applicable
U-Constituent was not detected above the associated detection limit

UL-The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity. Low bias is indicated.

R-Result is rejected.

⁽¹⁾ A Monthly Average Flow value is not calculated, value presented is the actual total flow (in gallons) for the month.

Monthly averages are based on 1/2 the detection limit, where applicable.

The mass loadings for hexachlorobenzene, 4,4-DDT, and 2,3,7,8-TCDD (dioxin) were calculated based on 1/2 of the detection limit.